

PATENT APPLICATION

CLAIMS

- 1 1. A method for facilitating the management of a communication network asset item,
2 comprising:
3 assigning system-readable identification to an asset item of a communication
4 network;
5 receiving, at a physical asset manager, said system-readable identification of the
6 asset item in response to installing the asset item in the communication network; and
7 creating an informational link between an on-line sub-object of the asset item and
8 an off-line sub-object of the asset item, wherein said system-readable identification
9 enables the physical asset manager to create the informational link between the on-line
10 sub-object of the asset item and the off-line sub-object of the asset item.
- 1 2. The method of claim 1 wherein:
2 assigning said system-readable identification to the asset item includes assigning a
3 serial number and a part number to the asset item; and
4 receiving said system-readable identification includes receiving the serial number
5 and the part number.
- 1 3. The method of claim 1 wherein assigning said system-readable identification to the
2 asset item includes retrievably storing said system readable identification on an
3 electronic element of the asset item.
- 1 4. The method of claim 1 wherein installing the asset item includes performing an
2 installation operation, wherein the asset item is moved from an in-repair sub-state of
3 an un-installed state to an installed state.
- 1 5. The method of claim 4, further comprising:
2 performing a de-installation operation prior to performing the installation
3 operation, wherein the asset item is moved from the installed state to the in-repair sub-
4 state of the un-installed state.

PATENT APPLICATION

1 6. The method of claim 1 wherein installing the asset item includes performing an
2 installation operation wherein the asset item is moved from an in-stock sub-state of an
3 un-installed state to an installed state.

1 7. The method of claim 6, further comprising:
2 performing a de-installation operation prior to performing the installation
3 operation, wherein the asset item is moved from the installed state to the in-stock sub-
4 state of the un-installed state.

1 8. The method of claim 1 wherein creating the informational link includes retrieving the
2 on-line sub-object of the asset item in an on-line persistent asset database and
3 retrieving the off-line sub-object of the asset item in an off-line asset inventory
4 database.

1 9. The method of claim 8 wherein retrieving the on-line sub-object of the asset item
2 includes accessing the on-line persistent asset database via a network resource
3 inventory server.

1 10. The method of claim 1 wherein creating the informational link includes performing an
2 informational binding operation for associating information retrievable from an on-line
3 persistent asset database with corresponding information retrievable from an off-line
4 asset inventory database.

1 11. The method of claim 10 wherein the informational binding operation is performed in
2 response to the physical asset manager receiving said system-readable identification.

1 12. The method of claim 11 wherein receiving said system-readable identification includes
2 receiving a serial number and a part number stored on an electronic element of the
3 asset item.

1 13. The method of claim 12, further comprising:

2 automatically accessing the serial number and the part number on the electronic
3 element of the asset item when the asset item is installed in the communication
4 network.

1 14. The method of claim 1, further comprising:

2 enabling the display of a physical asset management view of an object
3 corresponding to the asset item in response to creating the informational link, wherein
4 the on-line sub-object of the asset item and the off-line sub-object of the asset item are
5 capable of being integrally viewed in the physical asset management view.

1 15. The method of claim 14 wherein enabling the display of the physical asset

2 management view includes integrating information separately viewable in an on-line
3 inventory sub-object view and in an off-line inventory sub-object view.

1 16. The method of claim 1, further comprising:

2 setting a spare parts threshold level associated with the asset item;
3 activating a spare parts support object associated with the off-line sub-object of the
4 asset item; and
5 issuing a spare parts notification when the spare parts threshold level exceeds a
6 spare parts instance of the asset item.

1 17. The method of claim 1, further comprising:

2 preparing network planning information after creating the informational link.

1 18. The method of claim 17 wherein preparing said network planning information includes
2 preparing a statistical report.

1 19. The method of claim 17 wherein preparing said network planning information includes
2 preparing an inventory report.

PATENT APPLICATION

- 1 20. A method for facilitating the management of a communication network asset item,
2 comprising:
3 assigning a serial number and a part number to an asset item of a communication
4 network, wherein the serial number and the part number are electronically stored on an
5 electronic element of the asset;
6 receiving, at a physical asset manager, the serial number and the part number of the
7 asset item to a physical asset manager in response to installing the asset item in the
8 communication network;
9 performing an informational binding operation for associating information
10 retrievable from an on-line persistent asset database with corresponding information
11 retrievable from an off-line asset inventory database, wherein said system-readable
12 identification enables the physical asset manager to create an informational link
13 between the on-line sub-object of the asset item and the off-line sub-object of the asset
14 item;
15 enabling the display of a physical asset management view of an object
16 corresponding to the asset item in response to creating the informational link, wherein
17 the on-line sub-object of the asset item and the off-line sub-object of the asset item are
18 capable of being integrally viewed in the physical asset management view; and
19 preparing network planning information after creating the informational link.

21. An apparatus for facilitating the management of a communication network asset item, comprising:

a physical asset management system including a physical asset manager connected to an on-line persistent asset database, to an off-line asset inventory database and to a communication network, and wherein the physical asset management system is capable of:

receiving system-readable identification of an asset item in response to installing the asset item in a communication network; and

creating an informational link between an on-line sub-object of the asset item and an off-line sub-object of the asset item, wherein said system-readable identification enables the physical asset manager to create the informational link between the on-line sub-object of the asset item and the off-line sub-object of the asset item.

22. The apparatus of claim 21 wherein the physical asset manager includes a physical asset server and a physical asset management application installed on the physical asset server.

23. The apparatus of claim 21 wherein receiving said system-readable identification includes receiving a serial number of the asset item and a part number of the asset item.

24. The apparatus of claim 21 wherein the asset item includes an electronic element and the asset item is electrically connected to the communication network for enabling said system-readable identification to be received from an electronic element of the asset item by the physical asset manager.

25. The apparatus of claim 21 wherein the physical asset management system includes a network resource inventory server connected between the physical asset manager and the on-line persistent asset database for enabling the on-line persistent asset database to be accessed via the physical asset manager.

PATENT APPLICATION

1 26. The apparatus of claim 21 wherein the physical asset management system includes a
2 network resource inventory server connected between the physical asset manager and
3 the on-line persistent asset database thus enabling an informational binding operation
4 to be performed for creating the informational link whereby information retrievable
5 from an on-line persistent asset database is associated with corresponding information
6 retrievable from an off-line asset inventory database.

1 27. The apparatus of claim 26 wherein the informational binding operation is performed in
2 response to the physical asset management system receiving said system-readable
3 identification when the asset item is installed in the communication network.

1 28. The apparatus of claim 21, wherein the physical asset management system is further
2 capable of:
3 enabling the display of a physical asset management view of an object
4 corresponding to the asset item in response to creating the informational link, the on-
5 line sub-object of the asset item and the off-line sub-object of the asset item are
6 capable of being integrally viewed in the physical asset management view.

1 29. The apparatus of claim 28 wherein enabling the display of the physical asset
2 management view includes integrating information separately viewable in an on-line
3 inventory sub-object view and in an off-line inventory sub-object view.

1 30. The apparatus of claim 21, further comprising:
2 preparing network planning information after creating the informational link.

1 31. The apparatus of claim 30 wherein preparing said network planning information
2 includes preparing a statistical report.

1 32. The apparatus of claim 30 wherein preparing said network planning information
2 includes preparing an inventory report.

- 1 33. An apparatus for facilitating the management of a communication network asset item,
2 comprising:
3 a physical asset management system including a physical asset manager connected
4 to an on-line persistent asset database through a network resource inventory server, to
5 an off-line asset inventory database and to a communication network through the
6 network resource inventory server, the physical asset manager including a physical
7 asset server and a physical asset management application installed on the physical
8 asset server, and wherein the physical asset management system is capable of:
9 receiving a system-readable serial number and a system-readable
10 part number from an electronic element of the asset item in response to
11 installing the asset item in a communication network;
12 performing an informational binding operation for creating an
13 informational link between an on-line sub-object of the asset item and an
14 off-line sub-object of the asset item whereby information retrievable from
15 the on-line persistent asset database is associated with corresponding
16 information retrievable from the off-line asset inventory database, wherein
17 said system-readable serial number and the system-readable part number
18 enable the physical asset manager to create the informational link between
19 the on-line sub-object of the asset item and the off-line sub-object of the
20 asset item;
21 enabling the display of a physical asset management view of an
22 object corresponding to the asset item in response to creating the
23 informational link, wherein the on-line sub-object of the asset item and the
24 off-line sub-object of the asset item are capable of being integrally viewed
25 in the physical asset management view; and
26 preparing network planning information after creating the
27 informational link.

- 1 34. A computer program product, comprising:
2 a computer program processable by a physical asset server of a physical asset
3 manager; and
4 an apparatus from which the computer program is accessible by the physical asset
5 server;
6 the computer program enabling the physical asset server to:
7 receive system-readable identification of an asset item in
8 response to installing the asset item in a communication network;
9 create an informational link between an on-line sub-object
10 of the asset item and an off-line sub-object of the asset item,
11 wherein said system-readable identification enables the physical
12 asset manager to create the informational link between the on-line
13 sub-object of the asset item and the off-line sub-object of the asset
14 item;
15 enable the display of a physical asset management view of
16 an object corresponding to the asset item in response to creating the
17 informational link, wherein the on-line sub-object of the asset item
18 and the off-line sub-object of the asset item are capable of being
19 integrally viewed in the physical asset management view; and
20 prepare network planning information after creating the
21 informational link.